

L Number	Hits	Search Text	DB	Time stamp
1	3	5780623.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 13:53
2	2	5973406.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 13:53
3	18685	caprolactam	USPAT; EPO; JPO; DERWENT	2001/10/23 13:58
4	59371	carbon adj monoxide	USPAT; EPO; JPO; DERWENT	2001/10/23 13:58
5	378	caprolactam and (carbon adj monoxide)	USPAT; EPO; JPO; DERWENT	2001/10/23 13:58
6	155296	palladium or pd	USPAT; EPO; JPO; DERWENT	2001/10/23 13:58
7	131	(caprolactam and (carbon adj monoxide)) and (palladium or pd)	USPAT; EPO; JPO; DERWENT	2001/10/23 13:58
8	60682	\$nitrile	USPAT; EPO; JPO; DERWENT	2001/10/23 13:59
10	112	5-cyanovaler\$	USPAT; EPO; JPO; DERWENT	2001/10/23 13:59
11	18517	group adj VIII	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
12	495	pentenenitrile	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
13	45	5-cyanovaler\$ and pentenenitrile	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
19	96609	\$Bis-(phosphino)propane	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
21	96609	\$Bis-(Di-tert-butylphosphino)propane	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
23	4582	carbonylation	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
24	463	(\$Bis-(Di-tert-butylphosphino)propane) and carbonylation	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
25	321	(palladium or pd) and (\$Bis-(Di-tert-butylphosphino)propane) and carbonylation)	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
28	0	049554.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
32	36	5-cyanovaleric	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
36	83912	hydrogenation	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
37	1228	6-aminocaproic	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
9	33	((caprolactam and (carbon adj monoxide)) and (palladium or pd)) and \$nitrile	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
14	6	caprolactam and (5-cyanovaler\$ and pentenenitrile)	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00

15	27	(carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile)	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
16	19	(palladium or pd) and ((carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile))	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
17	2	5679831.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
18	2	6156934.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
20	7	((carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile)) and (\$Bis-(phosphino)propane)	USPAT; EPO; JPO; DERWENT	2001/10/23 14:05
22	7	((carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile)) and (\$Bis-(Di-tert-butylphosphino)propane)	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
26	18	pentenenitrile and ((palladium or pd) and ((\$Bis-(Di-tert-butylphosphino)propane) and carbonylation))	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
27	6	"0495548"	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
29	4	49554.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
30	1	0049554.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
31	32	caprolactam and 5-cyanovaler\$	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
33	19	caprolactam and 5-cyanovaleric	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
34	1		USPAT	2001/10/23 14:00
35	1		USPAT	2001/10/23 14:00
38	11	6-aminocaproic and 5-cyanovaleric	USPAT; EPO; JPO; DERWENT	2001/10/23 14:00
39	3	9815529.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:05
40	2	5679831.pn.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:53
41	169	("558/441").CCLS.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:53
44	0	((("540/485").CCLS.) and 5-cyanovaleric	USPAT; EPO; JPO; DERWENT	2001/10/23 14:56
42	137	("540/485").CCLS.	USPAT; EPO; JPO; DERWENT	2001/10/23 14:54
45	5	((("558/441").CCLS.) and 5-cyanovaleric	USPAT; EPO; JPO; DERWENT	2001/10/23 14:55
46	56	((("540/485").CCLS.) and caprolactam	USPAT; EPO; JPO; DERWENT	2001/10/23 14:56

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	3	5780623.pn.	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:53		
2	BRS	L2	2	5973406.pn.	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:53		
3	BRS	L3	18685	caprolactam	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:58		
4	BRS	L4	59371	carbon adj monoxide	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:58		
5	BRS	L5	378	caprolactam and (carbon adj monoxide)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:58		
6	BRS	L6	15529 6	palladium or pd	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:58		
7	BRS	L7	131	(caprolactam and (carbon adj monoxide)) and (palladium or pd)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:58		
8	BRS	L8	60682	\$nitrile	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:59		Truncation Overflow. Return string from Server is: 5`0`1`\$NI
9	BRS	L10	112	5-cyanovaler\$	USPAT ; EPO; JPO; DERWE NT	2001/10/23 13:59		
10	BRS	L11	18517	group adj VIII	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
11	BRS	L12	495	pentenenitrile	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
12	BRS	L13	45	5-cyanovaler\$ and pentenenitrile	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
13	BRS	L19	96609	\$Bis- (phosphino)propane	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
14	BRS	L21	96609	\$Bis- (Di-tert-butylphosph ino)propane	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
15	BRS	L23	4582	carbonylation	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
16	BRS	L24	463	(\$Bis- (Di-tert-butylphosp hino)propane) and carbonylation	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
17	BRS	L25	321	(palladium or pd) and ((\$Bis- (Di-tert-butylphos phino)propane) and carbonylation)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
18	BRS	L28	0	049554.pn.	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
19	BRS	L32	36	5-cyanovaleric	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
20	BRS	L36	83912	hydrogenation	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
21	BRS	L37	1228	6-aminocaproic	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
22	BRS	L9	33	((caprolactam and (carbon adj monoxide)) and (palladium or pd)) and \$nitrile	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		Truncation Overflow. Return string from Server is: 5`18685`6
23	BRS	L14	6	caprolactam and (5-cyanovaler\$ and pentenenitrile)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
24	BRS	L15	27	(carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
25	BRS	L16	19	(palladium or pd) and ((carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile))	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
26	BRS	L17	2	5679831.pn.	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
27	BRS	L18	2	6156934.pn.	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
28	BRS	L20	7	((carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile)) and (\$Bis- (phosphino)propane)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:05		
29	BRS	L22	7	((carbon adj monoxide) and (5-cyanovaler\$ and pentenenitrile)) and (\$Bis- (Di-tert-butylphosp hino)propane)	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		
30	BRS	L26	18	pentenenitrile and ((palladium or pd) and ((\$Bis- (Di-tert-butylphos phino)propane) and carbonylation))	USPAT ; EPO; JPO; DERWE NT	2001/10/23 14:00		

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
31	BRS	L27	6	"0495548"	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:00		
32	BRS	L29	4	49554.pn.	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:00		
33	BRS	L30	1	0049554.pn.	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:00		
34	BRS	L31	32	caprolactam and 5-cyanovaler\$	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:00		
35	BRS	L33	19	caprolactam and 5-cyanovaleric	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:00		
36	BRS	L34	1	"4636576".PN.	USPAT	2001/10/23 14:00		
37	BRS	L35	1	"5616773".PN.	USPAT	2001/10/23 14:00		
38	BRS	L38	11	6-aminocaproic and 5-cyanovaleric	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:00		
39	BRS	L39	3	9815529.pn.	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:05		
40	BRS	L40	2	5679831.pn.	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:53		
41	IS&R	L41	169	("558/441").CCLS.	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:53		

	Err ors
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	0
41	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
42	BRS	L44	0	142 and 132	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:56		
43	IS&R	L42	137	("540/485").CCLS.	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:54		
44	BRS	L45	5	141 and 132	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:55		
45	BRS	L46	56	142 and 13	USPAT; EPO; JPO; DERWE NT	2001/10/23 14:56		

	Err ors
42	0
43	0
44	0
45	0

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NEWS	3	Feb 06	Engineering Information Encompass files have new names
NEWS	4	Feb 16	TOXLINE no longer being updated
NEWS	5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS	6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS	7	May 07	DGENE Reload
NEWS	8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS	9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS	10	Aug 23	In-process records and more frequent updates now in MEDLINE
NEWS	11	Aug 23	PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS	12	Aug 23	Adis Newsletters (ADISNEWS) now available on STN
NEWS	13	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS	14	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS	15	Oct 09	Number of Derwent World Patents Index updates increased
NEWS	16	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS	17	Oct 22	Over 1 million reactions added to CASREACT
NEWS	18	Oct 22	DGENE GETSIM has been improved
NEWS EXPRESS			August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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NEWS LOGIN			Welcome Banner and News Items
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NEWS WWW			CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 09:43:04 ON 23 OCT 2001

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.15

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STN INTERNATIONAL SESSION SUSPENDED AT 09:43:09 ON 23 OCT 2001

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NEWS 3 Feb 06 Engineering Information Encompass files have new names  
NEWS 4 Feb 16 TOXLINE no longer being updated  
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure  
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA  
NEWS 7 May 07 DGENE Reload  
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL  
NEWS 9 JUL 13 New SDI alert frequency now-available in Derwent's  
DWPI and DPCI  
NEWS 10 Aug 23 In-process records and more frequent updates now in  
MEDLINE  
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA  
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN  
NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change  
to PHARMASEARCH  
NEWS 14 Oct 09 Korean abstracts now included in Derwent World Patents  
Index  
NEWS 15 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 16 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 17 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 18 Oct 22 DGENE GETSIM has been improved  
  
NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,  
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),  
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001  
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NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
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TOTAL

ENTRY

SESSION

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0.15

0.15

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FILE COVERS 1947 - 23 Oct 2001 VOL 135 ISS 18

FILE LAST UPDATED: 22 Oct 2001 (20011022/ED)

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=> 5-cyano-valer?

4784760 5

57566 CYANO

3 CYANOS

57567 CYANO

(CYANO OR CYANOS)

16897 VALER?

L1

1 5-CYANO-VALER?

(5 (W) CYANO (W) VALER?)

=> 5-cyanovaler?

4784760 5

671 CYANOVALER?  
L2 48 5-CYANOVALER?  
(5(W) CYANOVALER?)

=> caprolactam  
17390 CAPROLACTAM  
392 CAPROLACTAMS  
L3 17463 CAPROLACTAM  
(CAPROLACTAM OR CAPROLACTAMS)

=> l2 and l3  
L4 5 L2 AND L3

=> d l4 1-5 ti

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS  
TI Process for preparing 6-aminocaproamide

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS  
TI Process and catalysts for the carbonylation of pentenenitrile into  
5-cyanovaleric acid or its esters

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS  
TI Process to prepare .epsilon.-caprolactam from 6-aminocaproic  
acid

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS  
TI Process and catalysts for the preparation of C1-12 alkyl 5-  
cyanovalerates from C1-12 alkanols and 1-cyano-2-butene

L4 ANSWER 5 OF 5 CAPLUS - COPYRIGHT 2001 ACS  
TI Lewis acid catalyzed ammonolysis of nylon

=> d l4 1-5 ti fbib abs

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS  
TI Process for preparing 6-aminocaproamide  
AN 2001:762962 CAPLUS  
TI Process for preparing 6-aminocaproamide  
IN Koch, Theodore Augur; Allgeier, Alan Martin; Harper, Mark Jay;  
Sengupta, Sourav Kumar  
PA E.I. Du Pont de Nemours and Company, USA  
SO PCT Int. Appl.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001077068	A2	20011018	WO 2001-US9951	20010328
	W: BR, CA, CN, ID, JP, KR, MX, SG				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
	PT, SE, TR				

US 2000-543766 A 20000405  
AB A process for the production of 6-aminocaproamide comprising reacting  
5-cyanovaleramide with hydrogen in the presence of a  
metal catalyst. The 6-aminocaproamide is useful, for example, in the  
production of caprolactam and nylon 6.

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS



TI Process and catalysts for the carbonylation of pentenenitrile into  
**5-cyanovaleric acid** or its esters  
AN 2001:730692 CAPLUS  
TI Process and catalysts for the carbonylation of pentenenitrile into  
**5-cyanovaleric acid** or its esters  
IN Drent, Eit; Jager, Willem Wabe  
PA Shell Internationale Research Maatschappij B.V., Neth.  
SO PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072697	A2	20011004	WO 2001-EP2903	20010314
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
				EP 2000-200926 A	20000314
				EP 2000-200927 A	20000314

PATENT FAMILY INFORMATION:

FAN 2001:693262

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001068583	A2	20010920	WO 2001-EP2908	20010314
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
				EP 2000-200927 A	20000314
				EP 2000-309654 A	20001101

AB Process to prep. a **5-cyanovaleric acid** or its ester by carbonylation of a pentenenitrile, wherein pentenenitrile is reacted with carbon monoxide and water or an alc. in the presence of a catalyst system.

The catalyst system comprises (a) a metal of Group VIII or a compd. thereof and (b) a bidentate ligand R1(R2)M1RM2(R3)R4 (M1, M2 = P, As, Sb; R = divalent org. bridging group which comprises a chain of 3 to 5 atoms directly connecting the 2 phosphorus atoms, which chain consists of

carbon

atoms and optionally a nitrogen, oxygen, sulfur, substituted Si; R1-R4 = optionally substituted tertiary-alkyl groups), ands (c) an acid having a pKa less than 3, as measured at 18.degree. in an aq. soln. The process

to

prep. **5-cyanovaleric acid** or ester can be used in a process to prep. .epsilon.-caprolactam comprising: (i) carbonylation of pentenenitrile to **5-cyanovaleric acid** or ester; (ii) redn. of **5-cyanovaleric acid** or esters as obtained in step (i) into 6-aminocaproic acid or esters; and (iii) cyclisation of the 6-aminocaproic acid or ester to .epsilon.-

**caprolactam.**

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS  
 TI Process to prepare .epsilon.-**caprolactam** from 6-aminocaproic acid  
 AN 1997:579699 CAPLUS  
 DN 127:221125  
 TI Process to prepare .epsilon.-**caprolactam** from 6-aminocaproic acid  
 IN Guit, Rudolf Philippus Maria; Lane, Samuel Livingston; Buijs, Wim  
 PA DSM N.V., Neth.; E.I. Du Pont De Nemours and Co.; Guit, Rudolf Philippus Maria; Lane, Samuel Livingston; Buijs, Wim  
 SO PCT Int. Appl., 18 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9730973	A1	19970828	WO 1997-NL56	19970212
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5780623	A	19980714	US 1996-605883	19960223
CA 2247463	AA	19970828	US 1996-605883	19960223
			CA 1997-2247463	19970212
			US 1996-605883	19960223
AU 9716760	A1	19970910	AU 1997-16760	19970212
			US 1996-605883	19960223
			WO 1997-NL56	19970212
EP 882017	A1	19981209	EP 1997-902744	19970212
R: BE, DE, ES, FR, GB, IT, NL				
			US 1996-605883	19960223
			WO 1997-NL56	19970212
CN 1216528	A	19990512	CN 1997-193939	19970212
			US 1996-605883	19960223
JP 2000504743	T2	20000418	JP 1997-530020	19970212
			US 1996-605883	19960223
			WO 1997-NL56	19970212
US 5973406	A	19991026	US 1998-141406	19980821
			US 1996-605883	19960223
			WO 1997-NL56	19970212

AB The process to prep. .epsilon.-**caprolactam** comprises starting from a liq. aq. mixt. contg. an alc. and 6-aminocaproic acid by cyclization of 6-aminocaproic acid in the aq. mixt. at an elevated temp. The alc. is sepd. from the starting aq. mixt. before performing the cyclization to such extent that the concn. of alc. in the aq. mixt. during the cyclization is .ltoreq.1%. The advantages include reduced amts. of undesirable byproducts.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS  
 TI Process and catalysts for the preparation of C1-12 alkyl 5-**cyanovaleterates** from C1-12 alkanols and 1-cyano-2-butene  
 AN 1997:231495 CAPLUS  
 DN 126:250906  
 TI Process and catalysts for the preparation of C1-12 alkyl 5-

**cyanovalerates** from C1-12 alkanols and 1-cyano-2-butene  
IN Stahl, Stefan; Harder, Wolfgang; Hoehn, Arthur  
PA BASF A.-G., Germany  
SO U.S., 4 pp. Cont.-in-part of U.S. 5,434,290.  
CODEN: USXXAM

DT Patent  
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5616773	A	19970401	US 1995-419608	19950410
				DE 1993-4306507	19930303
				US 1994-203022	19940228
	DE 4306507	A1	19940908	DE 1993-4306507	19930303
	US 5434290	A	19950718	US 1994-203022	19940228
				DE 1993-4306507	19930303

PATENT FAMILY INFORMATION:

FAN 1994:630358

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 613882	A1	19940907	EP 1994-102861	19940225
	EP 613882	B1	19970108		
	R: BE, DE, FR, GB, IT, NL				
	DE 4306507	A1	19940908	DE 1993-4306507	19930303
	JP 06316555	A2	19941115	DE 1993-4306507	19930303
				JP 1994-22393	19940221
				DE 1993-4306507	19930303

OS CASREACT 126:250906; MARPAT 126:250906

AB C1-12 alkyl 5-**cyanovalerates** (e.g., Me 5-**cyanovalerate**) are prepd. by the carbonylation of 1-cyano-2-butene and a C1-12 alkanol (e.g., -MeOH) with carbon monoxide at 130-200.degree. and under superatmospheric pressure in the presence of a cobalt catalyst [e.g., Co2(CO)8] in a solvent (e.g., H2O) contg. an effective amt. of a urea R2NCONR2 (R = C1-6 alkyl, C5-7 cycloalkyl or where 2R groups together

form a 5- to 7-membered ring) deriv. C1-12 alkyl 5-**cyanovalerates** may be used in the prepn. of .epsilon.-**caprolactam** (no data).

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Lewis acid catalyzed ammonolysis of nylon

AN 1995:682649 CAPLUS

DN 123:56975

TI Lewis acid catalyzed ammonolysis of nylon

IN Mckinney, Ronald J.

PA E. I. Du Pont de Nemours and Company, USA

SO U.S., 4 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5395974	A	19950307	US 1994-184335	19940121
	WO 9519950	A1	19950727	WO 1995-US377	19950119
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2181238	AA	19950727	US 1994-184335	19940121
				CA 1995-2181238	19950119
				US 1994-184335	19940121
	AU 9515637	A1	19950808	AU 1995-15637	19950119

EP 740648 A1 19961106  
EP 740648 B1 19980610  
R: BE, DE, FR, GB, IT, NL

US 1994-184335 19940121  
WO 1995-US377 19950119  
EP 1995-907389 19950119

JP 09508368 T2 19970826

US 1994-184335 19940121  
WO 1995-US377 19950119  
JP 1995-519590 19950119  
US 1994-184335 19940121  
WO 1995-US377 19950119

AB The present invention relates to a method of reacting polyamides or mixts. thereof with ammonia to obtain a mixt. of monomers. The reaction is carried out in the presence of certain Lewis Acid catalyst precursors.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
33.82	33.97

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.94	-2.94

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:51:49 ON 23 OCT 2001

Connection closed by remote host

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'CAPLUS' AT 13:55:28 ON 23 OCT 2001

FILE 'CAPLUS' ENTERED AT 13:55:28 ON 23 OCT 2001

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
33.82	33.97

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.94	-2.94

CA SUBSCRIBER PRICE

=> d his

(FILE 'HOME' ENTERED AT 13:49:28 ON 23 OCT 2001)

FILE 'CAPLUS' ENTERED AT 13:49:36 ON 23 OCT 2001

L1 1 5-CYANO-VALER?

L2 48 5-CYANOVALER?

L3 17463 CAPROLACTAM

L4 5 L2 AND L3

=> hydrogenat?

L5 20 HYDOGENAT?

=> hydrogenat?

L6 212344 HYDROGENAT?

=> l6 and l2

L7 6 L6 AND L2

=> l7 not l4

L8 5 L7 NOT L4

=> d l8 1-5 ti

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Process development using nitrile-hydrolyzing microbes

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Alkyl 2-halo-5-cyanovalerate. A lysine precursor

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI .alpha.-Oximino ketones. VI. Synthesis of alkyl 5  
cyano-2-oximinovalerates  
and DL-lysine from 2,6-diacyloximinocyclohexanones

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Synthesis of diacids, amino acids, and a diamine from furfural

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Adiponitrile--a novel self-condensation sequence

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	39.60	39.75
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.94	-2.94

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:57:35 ON 23 OCT 2001

Connection closed by remote host